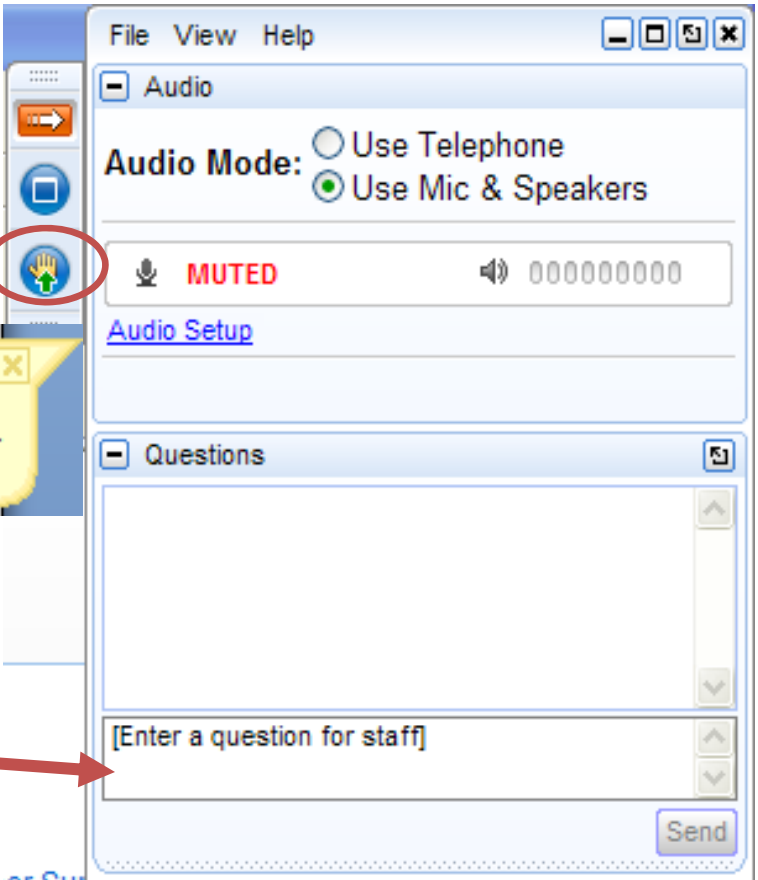


# The Agriculture Subcommittee Meeting will begin shortly...

## AUDIO INSTRUCTIONS:

*We have muted your telephone or microphone.*

If you want to speak during the meeting, click



ASG Staff will unmute you

You can also type a question to ASG Staff

# Global Methane Initiative

## Agriculture Subcommittee Meeting

24 September 2013



# Agenda

- Welcome
  - Introductions and brief country updates
- Subcommittee Activities
  - GMI Benefits Guide
  - GMI Incentives Guide
- ASG Update
  - Outcomes of Methane Expo 2013
  - Action Planning
  - 10<sup>th</sup> year Anniversary Activities
- Next Agriculture Meeting

# Introductions

- Agriculture Subcommittee Co-chairs
  - Allison Costa, United States
  - Anil Dhussa, India
  - Jorge Hilbert, Argentina
- Administrative Support Group
  - Monica Shimamura
  - Cortney Itle
  - Sarah Greenberg
- Meeting participants introduce themselves when prompted
  - Please include name, organization, and country

# Country Updates

- Country Delegates provide brief (2 minute) country updates on current country activities related to the work of the GMI Agriculture Subcommittee:
  - Argentina
  - India
  - United States
  - Other Countries
  - Climate and Clean Air Coalition (CCAC)

# Country Update: Argentina

- Increase in human resources trained for biogas technology.
- New plants codigestion 2 Mega at a farm level.
- >30 plants in the agroindustrial sector in operation with use of gas.
- Increase in energy shortage 8000 million dollars fuel imports 2013.
- New probiomass program of ministry of agriculture + energy  
Wisdoms province active participation.
- New grants for technology development
- New government plans with 15 year contracts of energy provision to the market
- Problems in financing new plants and increase instability of general rules in the market
- Performance problems of cover3d lagoon types of digester
- New firms entering the market with agreements for technical assistance from Germany (five)

# Country Update:

## India

- 2.4 MW project based on mix of poultry droppings, cattle manure along with some agro industrial wastes after MW scale projects based on only cattle dung
- About ten projects on production and upgradation of biogas to Compressed Natural Gas Quality fuel. Capacity ranges from 0.4 to 8 TPD bioCNG.
- Financial support being extended for bio CNG projects under the waste-to-energy programme
- These projects are besides continuation of programme on household and small and large power generation projects based on cattle manure and industrial wastes

# Country Update:

## United States

- Almost 200 operating livestock manure digesters
- National workgroup (chaired by US EPA) composed of members from government, private industry, universities, and other associations is working on joint activities
  - General education
  - Policy/regulatory information





# Country Update: Other Countries



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**CLIMATE AND CLEAN AIR COALITION**  
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS



# Initiative Overview

**1. Lead Partners:** Bangladesh, Bellona, Canada, European Commission (DG Agriculture), Ghana, ICCL, SEI, US

**2. Objective:**

The objective of an agriculture initiative under the Climate and Clean Air Coalition (CCAC) is to share and implement best practices for minimizing emissions of short-lived climate pollutants (SLCPs) from agriculture in a manner that is consistent with broader climate change objectives and that also enhances food security and livelihoods.

**3. Key Deliverables:**

- a. Best management practices and technologies
- b. Measurement tools
- c. Decision-making tools
- d. Business models and when appropriate, incentives
- e. Awareness-raising and participatory activities
- f. Scientific research
- g. Lessons learned
- h. Policy suggestions



## Anticipated Funding Components

1. Black Carbon emissions from agricultural burning
2. Methane emissions from paddy rice
3. Methane emissions from the livestock sector

**The components for addressing black carbon emissions from agricultural burning and addressing methane emissions from the livestock sector are expected to be submitted to the CCAC Steering Committee on October 1<sup>st</sup> for an initial review. Funding approvals will be made at the November 2013 Working Group meeting.**



# Manure Management Component

1. **Goal:** The widespread implementation of integrated manure management practices to capture methane as an energy source, reduce emissions to the environment, and optimize nutrient utilization for crop production.
  
2. **Context:** 50 % of the total global methane emissions originates from livestock. Methane emissions from enteric fermentation are the largest fraction, methane emissions from manure storages are calculated at 280 Mt of CO<sub>2</sub>-equivalents.
  
3. **Expected Results:**
  - Capture methane
  - Reduce emissions
  - Produce energy
  - Reduce nutrient losses to water and air
  - Improved food security



# Manure Management Component

## 1. Manure Management Network:

- Linking existing networks and organizations
- Organizing actions for awareness, support and capacity building among different stakeholders
- One central and three regional networks (Latin America, Asia, Africa) for organizing activities by using the networks and for managing networks and knowledge management
- Roster of experts, from the networks, for all activities
- Advisory Board for strategic development

## 2. Preliminary List of Implementers:

- Central Knowledge Platform: WLR, FAO
- Regional Centers: CATIE (Latin America); ILRI (Africa); SEI (Asia)
- Advisory Board: CCAC, GMI, World Bank, GRA, European Commission, NIFA

***Next Steps: Finalize text and submit to Secretariat by October 1<sup>st</sup> in advance of the next round of funding approvals.***



# Contacts

## Emails:

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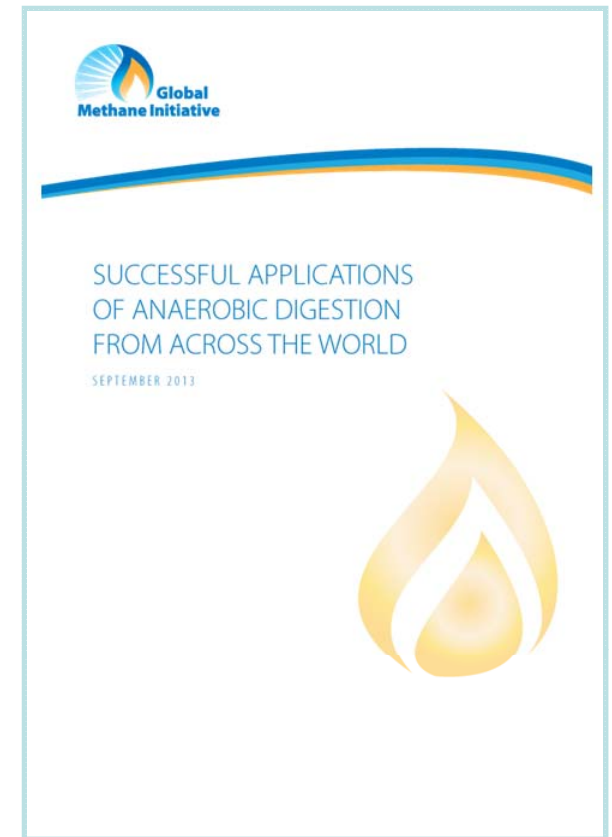
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[Mark.Manis@fas.usda.gov](mailto:Mark.Manis@fas.usda.gov)

# Anaerobic Digestion Benefits Report

- Successful Applications of Anaerobic Digestion from Across the World
  - [https://www.globalmethane.org/documents/ag\\_case\\_studies\\_guide.pdf](https://www.globalmethane.org/documents/ag_case_studies_guide.pdf)





# Anaerobic Digestion Policies and Incentives Report

## Goal:

- Produce a report on policies and incentives that are impact the use of anaerobic digesters.
- Identify lessons learned and best practices to help guide future policy and incentive development and support best practices.

## Process:

- Independent research
- Ideas and guidance on specific government policies, incentives and programs from Partner Countries.

# Anaerobic Digestion Policies and Incentives Report

## Target Audience:

- GMI Partner Country representatives
- GMI Project Network members
- Local, regional and national policy influencers
- Project developers and financing organizations
- Industry representatives
- Nongovernmental organizations
- Universities, academics and researchers



# Anaerobic Digestion Policies and Incentives Report

## Document Utilization:

- Promoting policy development in both GMI and non-GMI countries, and encouraging national leaders to improve existing policies and incentives.
- Creating a resource library for international policies, programs and incentives that impact anaerobic digester projects.
- Supporting future research and resource development to advance anaerobic digester project development and support beneficial policies and incentives.

# Anaerobic Digestion Policies and Incentives Report

- Will focus on both GMI member and non-member countries (presented in alphabetical order).



GMI member countries: Argentina, Belgium, Brazil, Canada, China, Ethiopia, Finland, Germany, India, Pakistan, Peru, Philippines, Poland, Serbia, Thailand, United Kingdom, and United States.

Non-member countries: France, Ireland, Netherlands, New Zealand, South Africa, and Sweden.

# Anaerobic Digestion Policies and Incentives Report

- Current Regulations/Policies
  - Agriculture-related regulations (air emissions, water emissions, etc.)
  - General energy / environmental-related regulations
  - Other policy drivers
- Current Programs
  - Ethiopia, Green Economy Plan
  - United Kingdom, Anaerobic Digestion Strategy and Action Plan

# Anaerobic Digestion Policies and Incentives Report

- International Current Incentives
  - *What incentives are governments providing to encourage anaerobic digesters?*



# Anaerobic Digestion Policies and Incentives Report

## Feedback:

Please submit feedback or additional suggestions of programs, policies or incentives by **4 October 2013** to Nicole Henderson ([nicole\\_henderson@sra.com](mailto:nicole_henderson@sra.com))

# ASG Update: Outcomes from Vancouver

- Outcomes from Successful Methane Expo 2013
  - Continue engaging with Climate and Clean Air Coalition
  - Financing: Continue to Identify barriers and international agriculture needs
  - Organize next opportunity to convene global methane community
  - Action Planning



Photo by Bayne Stanley/  
Courtesy of Environment Canada





# ASG Update: Action Planning

- Develop Country Action Plans
  - Country's current and future work in methane reduction
  - Could be part of country's climate strategy such as NAMAs
  - Benefit:
    1. More communication in the global community
    2. Guide can help identify country's needs and opportunities for methane reductions
- Revised Action Planning guidance as of July 2013:
  - [https://www.globalmethane.org/documents/GMI\\_RevisedActionPlanningGuidance\\_June2013.pdf](https://www.globalmethane.org/documents/GMI_RevisedActionPlanningGuidance_June2013.pdf)
- European Commission and Pakistan completed

# ASG Update: 10<sup>th</sup> Anniversary

- 10 years of global methane reductions and methane education
- To highlight GMI's accomplishments:
  - 1) Develop video and pamphlet
    - Details will be forthcoming on how Partners can participate
  - 2) All Partnership-wide Meeting 2014
    - Location: will be announced soon
    - Date: most likely September/October 2014



# Next Agriculture Subcommittee Meeting

- Tri-Subcommittee Meeting
  - Agriculture, Municipal Solid Waste, and Municipal Wastewater
- Possibilities include:
  - Timeframe: February/March 2014
  - Location: Santa Catarina, Brazil
- Any suggested agenda topics?

# Thank you

Thank you for your participation today.  
Hope to see you at the next meeting!